figure 2a

lpi (SEQ ID NO: 1) (SEQ ID NO: 1 + 2)

ATCTATATAGTTAATGAATAATTAATGAATGAAATTAATGTCATTAAAATAAATTAGTACTAATTACT

AAGGAGAATAAAAATGAAAATTAGAAAATCTATACTTGCGGGAACTTTAGCAATCGTTTTAGCATCACCAC

TAGTAACTAATCTAGATAAAAATGAGGCACAAGCTAGCACAAGCTTGCCAACATCGAATGAATATCAAAAACG

AAAAGTTAGCTAATGAATTAAAATCGTTATTAGATGAACTAAAATGTTAATGAATTAGCTACTGGAAGTTTAA

ACACTTATTATAAGCGAACTATAAAAATTTCAGGTCAAAAAGCAAATGTATGCTCTTAAGTCAAAAGACTTTA
T

AGAAAAATGTCAGAAGCAAAATATCAACTTCAAAAGATTTATAACGAAGCACTAAAAGTAAAT

ATTAAAAAAACCACCCGTAAAAGGGTGGTTTTAATTTTCTAGATAATATAAAAGTGTTCATAAATAAAACAG

TATAGG

Figure 2b

LpiB (SEQ ID NO:4) — (SEQ ID NO:9)

```
GGAGAGTTTACAATGAAATTTAAAAAAATATATTAACAGGAACATTAGCAT
TACTTTATCATCAACTGGGATAGCAACTATAGAAGGGAATAAAGCAGATG
CAAGTAGTCTGACAAATATTTAACTGAAGTCAGTTTCATGATAAAACGCA
TAGCAGAAGAATTAAGAACTTTACTTAACAAATCGAATGTATATGCATTAG
CTGCAGGAAGCTTAAATCCATATTATAAACGTACGATTATGATGAATGAAT
ATAGAGCTAAAGCGGCACTTAAGAAAAATGATTTCGTATCAATGGCTGATG
CTAAAGTTGCATTAGAAAAAATATACAAAGAAATTGATGAAATTATAAATA
GATAAT
```

LpiC (SEQ ID NO:6) (SEQ ID NO:10)

```
GGAGAATTTACAATGAAATTTAAAAAAATATATAGTAGCAGGAACATTAGCAGTACTATTATTCAACAACAGCAGTATCAAACGTTAGATGGGAA
TAAAGCAGATGCAAGTAGTAAGAAAGACTATATAATTCAAAGTGAGTTTCATGATAAAACGAATTGCTGAAGAATTGAAATCATTACTTGATC
AATCTTTATGTAAATGATTTAGCTGCAGGAAGCTTAAACCCATACTACAAACGTATGATTATGATGAACCAATATAGAGCAAAAGCAGCACTA
AAAGTAATAATTTCGCAAAAATGGCTGAAGCTAAAGTTGGATTAGAAAAACATTACAAGAAATTGATGAAATTATAAATAGATAAT
```

LpiD (SEQ ID NO:8) (SEQ ID NO:11 + 12)

```
GGAGTAACAAAGCATGACAACACAAATGAAAATCAAAACATATTTAGTTGCTGGTATTAAAGCGGCGCTCCTTGATACGACTGGTATTAAA
TTAGCAGGAAGCAAGTAGTAGAAATCTGAACTACATCACGTATCAACATCAAGCGCTTGTAGATCAATTAATAGCAAACACTGACTTAAA
TAAATTAATCGTACCTAAATTTAGATGCGTTTCAAAAACGGATATTTAGCTGCGCACTATATTGCAAAATCCGCTATACGCACTAAAAATTT
```
G
T
```
GGATCAAATGACTAAAGCGAAACAAACAAAGATTAGAAAGTATTTACAATTCAATTCAATTTCTAACCCTTTGCATTCACAAAAACAATTAATAATTCA
```

Figure 3

LPI (116aa) (SEQ ID NO 3) (SEQ ID NO: 3 + 4)

MKIRKSILAGTLAIVLIASPLVTNLDKNEAQASTSLPTSNEYQNEKLANELKSLLDELNVNELATGSLNTYYK
                                              L

RTIKISGQKAMYALKSKDFKKMSEAKYQLQKIYNEIDEALKSKY

LPI-B (116aa) (SEQ ID NO 5)

MKFKKYILTGTLALLLSSTGIATIEGNKADASSLDKYLTESQFHDKRIAEELRTLLNKSNVYALAAGSLNPYYKRTIMMNEYRAKAALKKNDEVSMADAKVALEKIYKEIDEIINR

LPI-C (116aa) (SEQ ID NO 7) (SEQ ID NO: 6)

MKFKKYIVAGTLAVLLSTTAVSTLDGNKADASSKKDYIIQSEFHDKRIAEELKSLLDQSYVNDLAAGSLNPYYKRMIMMNQYRAKAALKSNNFAKMAEAKVGLENIYKEIDEIINR

LPI-D (114aa) (SEQ ID NO 9) (SEQ ID NO: 7 + 8)

MTTQMKIKTYLVAGIKAALLDTTGIKLASKSETTSHTYQHQALVDQLHELIANTDLNKLSYLNLDAFQK
                          H   D

RDLLAAHYIAKSAIRTKNLDQMTKAKQRLESIYNSISNPLHSQNN

FIG. 2A

lpi (SEQ ID NO:1 AND 2)

ATCTATATAGTTAATGAATAATTAATTAATGTACTTTTTTTTTAGTTAGTTAGTCATTAAAATAAATTAGTACTAATTACT

AAGGAGAATAAAAAATGAAAATTAGAAAAATCTATACTTGCGGGAACTTTAGCAATCGTTTTAGCATCACCAC

TAGTAACTAATCTAGATAAAAATGAGGCACAAGCTAGCACAAGCTTGCCAACATCGAATGAATATCAAAAACG

AAAAGTTAGCTAATGAATTAAAATCGTTATTAGATGAACTAAAATGTTAATGAATTAGCTACTGGAAGTTTAA
T

ACACTTATTATAAGCGAACTATAAAAATTTCAGGTCAAAAAGCAATGTATGCTCCTTAAGTCAAAAGACTTTA

AGAAAAATGTCAGAAGCAAAATATCAACTTCAAAAGATTTATAACGAAATTGACGAAGCACTAAAAAGTAAAT

ATTAAAAAAACCACCCGTAAAAAGGGGTGGTTTTAATTTTCTAGATAATATATAAAAGTGTTCATAAATAAAAACAG

TATAGG

FIG. 2B

Figure 2b

LpiB (SEQ ID NO:9)

GGAGAGTTTACAATGAAATTTAAAAAAATATATTAACAGGAACATTAGCAT
TACTTTTATCATCAACTGGGATAGCAACTATAGAAGGGAATAAAGCAGATG
CAAGTAGTCTCTGGACAAATATTTAACTGAAGTCAGTTTCATGATAAACGCA
TAGCAGAAGAATTAAGAACTTTACTTAACAAATCGAATGTATATGCATTAG
CTGCAGGAAGCTTAAATCCATATTATAAACGTACGATTATGATGAATGAAT
ATAGAGCTAAAGCGGCACTTAAGAAAAATGATTTCGTATCAATGGCTGATG
CTAAAGTTGCATTAGAAAAAATATACAAAGAAATTGATGAAATTATAAATA
GATAAT

LpiC (SEQ ID NO:10)

GGAGAATTTACAATGAAATTAAAAAAATATATAGTAGCAGGAACATTAGCAT
TAAAGCAGATGCAAGTAGTAAGAAAGACTATATAATTCAAAGTGAGTTTCAT
AATCTTATGTAAATGATTTAGCTGCAGGAAGCTTAAACCCATACTACAAACG
AAAAGTAATAATTTCGCAAAAATGGCTGAAGCTAAATTGGATTAGAAAAACA
CAGCAGTATCAACACAACAGCAGTATCAACGTTAGATGGGAA
CATGATGATAAATCATTACTTGATC
TATGATGAACCAATATAGAGCAAAAGCAGCACTA
ATTACAAAGAAATTGATGAAATTATAAATAGATAAT

LpiD (SEQ ID NO:11 AND 12)

GGAGTAACAAAGCATGACAACACAAATGAAAATCAAAACATATTTAGTTGCTGGTAT
TTAGCAAGCAAATCTGAAACTGAAACTACATCAACATTAGTTGCTGGTATTAAA
TAAATTAATCGTACCTAAATTTAGATGCGTTCAAAAACGCGATATTTAGCTGCGC
TATAACGGCGCTCCTTGATACGACTGGTATTAAA
GTCAATCAATTACATGAATTAATAGCAAACACTGACTTAAA
CTATATTGCAAAATCCGCTATACGCACTAAAAATTT

G

T

GGATCAAATGACTAAAGCGAAACAAAGATTAGAAAAGTATTTACAATTCAATTCAATTTCTAACCCTTTGCATTCACAAAACAATTAATAATTCA

FIG. 3

LPI (116aa) (SEQ ID NO:3 AND 4)

MKIRKSILAGTLAIVLASPLVTNLDKNEAQASTSLPTSNEYQNEKLANELKSLLDELNVNELATGSLNTYYK

RTIKISGQKAMYALKSKDFKKMSEAKYQLQKIYNEIDEALKSKY

LPI-B (116aa) (SEQ ID NO 5)

MKFKKYILTGTLALLLSSTGIATIEGNKADASSLDKYLTESQFHDKRIAEEELRTLLNKSNVYALAAGSLNPYYKRTIMNEYRAKAALKKNDFVSMADAKVALEKIYKEIDELINR

LPI-C (116aa) (SEQ ID NO:6)

MKFKKYIVAGTLAVLLSTTAVSTLDGNKADASSKKDYIIQSEFHDKRIAEELKSLLDQSYVNDLAAGSLNPYYKRMIMNQYRAKAALKSNNFAKMAEAKVGLENIYKEIDELINR

LPI-D (114aa) (SEQ ID NO:7 AND 8)

MTTQMKIKTYLVAGIKAALLDTTGIKLASKSETTSHTYQHQALVDQLHELIANTDLNKLSYLNLDAFQK
                                                H   D

RDILAAHYIAKSAIRTKNLDQMTKAKQRLESIYNSISNPLHSQNN